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Protein search, using SW model

Run on: June 7, 2005, 09:53:33 ; Search time 30.0205 Seconds
(without alignments)
1367.836 Million cell updates/sec

Title: US-10-791-619-12
Perfect score: 625
Sequence: 1 EVQLVSEGGGLVQPGGSLRL.....YCARGGHYFGHWFHFAVGQG 114

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1599520 seqs, 360203123 residues
Total number of hits satisfying chosen parameters: 1599520

DB seq length: 0
Minimum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Published Applications AA.*

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- 18: /cggn2_6_ptodata/1/pubpaas/US11_PUBCOMB_pep:*
- 19: /cggn2_6_ptodata/1/pubpaas/US11_NEW_PUB_pep:*
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- 21: /cggn2_6_ptodata/1/pubpaas/US06_PUBCOMB_pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	625	100.0	114	14	US-10-113-996-12
3	625	100.0	114	14	US-10-791-619-12
4	625	100.0	229	9	US-09-920-171-20
5	625	100.0	229	14	US-10-113-996-20
6	625	100.0	229	16	US-10-791-619-20
7	625	100.0	233	9	US-09-920-171-25
8	625	100.0	233	14	US-10-113-996-25
9	625	100.0	233	16	US-10-791-619-25
10	625	100.0	248	9	US-09-920-171-22
11	625	100.0	248	14	US-10-113-996-22
12	625	100.0	248	16	US-10-791-619-22

ALIGNMENTS

RESULT 1
US-09-920-171-12

; Sequence 12, Application US/09920171
; General Information:
; Patent No. US20030054708A1
; Applicant: Lowman, Henry B.
; Applicant: Presta, Leonard G.
; Applicant: Jardieu, Paula M.
; Applicant: Lowe, John
; Title Of Invention: Improved Anti-IgE Antibodies (as amended)
; File Reference: F112-C2US
; Current Application Number: US 09/920,171
; Prior Application Number: US 08/887,352
; Prior Filing Date: 1997-07-02
; Prior Filing Date: 1999-04-21
; Number Of Seq ID NOS: 44
; Seq ID No 12
; Length: 114
; Type: PRT
; Organism: Artificial Sequence
; Feature:
; Other Information: Heavy chain sequence derived from MAE11
US-09-920-171-12

Query Match Score 625; DB 9; Length 114;
Best Local Similarity 100.0%; Pred. No. 4.6e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EVOLVESGGGLVQPGGLRUSCAVGGSYTSIGSYNNWIRQAPGKGLEWASITYDGSTNY 60
Db 1 EVOLVESGGGLVQPGGLRUSCAVGGSYTSIGSYNNWIRQAPGKGLEWASITYDGSTNY 60

Qy 248 14 NPSVKRITSRDDSSNTFTYQMNLSRAEDAVYVARGSHYFGHMFVAVGQG 114

RESULT 2

Db 61 NPSVKGRTISRDDSNTFLQMNSLRAEDTAVYCARGSHYFGHWHFAVMWGQG 114
 US-10-113-996-12
 ; Sequence 12, Application US/10113996
 ; Publication No. US20030149244A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Lowman, Henry B.
 ; APPLICANT: Presta, Leonard G.
 ; APPLICANT: Jardieu, Paula M.
 ; TITLE OF INVENTION: Improved Anti-IgE Antibodies
 ; FILE REFERENCE: P1123C3US
 ; CURRENT APPLICATION NUMBER: US/110/113, 996
 ; CURRENT FILING DATE: 2002-04-01
 ; PRIOR APPLICATION NUMBER: US 08/887, 352
 ; PRIOR FILING DATE: 1997-07-02
 ; PRIOR APPLICATION NUMBER: US 09/296, 005
 ; PRIOR FILING DATE: 1999-04-21
 ; PRIOR APPLICATION NUMBER: US 09/920, 171
 ; PRIOR FILING DATE: 2001-08-01
 ; NUMBER OF SEQ ID NOS: 44
 ; LENGTH: 114
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Heavy chain sequence derived from MAE11
 ; US-10-113-996-12

Query Match 100.0%; Score 625; DB 14; Length 114;
 Best Local Similarity 100.0%; Pred. No. 4 6e-51;
 Matches 114; Conservative 0; Mismatches 0;
 Indels 0; Gaps 0;

Db 1 EVOLVSGGGIVOPGGSLRLSCAVGSYTSITSGYSWNWIRQAPGKLEWASITYDGSTNY 60
 Db 1 EVOLVSGGGIVOPGGSLRLSCAVGSYTSITSGYSWNWIRQAPGKLEWASITYDGSTNY 60

Qy 61 NPSVKGRTISRDDSNTFLQMNSLRAEDTAVYCARGSHYFGHWHFAVMWGQG 114
 Db 61 NPSVKGRTISRDDSNTFLQMNSLRAEDTAVYCARGSHYFGHWHFAVMWGQG 114

RESULT 3

US-10-791-619-12
 ; Sequence 12, Application US/10791619
 ; GENERAL INFORMATION:
 ; APPLICANT: Henry B. Lowman, Leonard G. Presta, Paula M. Jardieu, John Lowe
 ; TITLE OF INVENTION: Improved Anti-IgE Antibodies and Method of Improving Polypeptides
 ; FILE REFERENCE: P1123R1
 ; CURRENT APPLICATION NUMBER: US/10/791, 619
 ; CURRENT FILING DATE: 2004-03-02
 ; PRIOR APPLICATION NUMBER: US/09/109, 207
 ; PRIOR FILING DATE: 1998-06-30
 ; PRIOR APPLICATION NUMBER: US 60/051, 554
 ; PRIOR FILING DATE: 1997-07-03
 ; NUMBER OF SEQ ID NOS: 44
 ; LENGTH: 114
 ; TYPE: PRT
 ; ORGANISM: Artificial
 ; FEATURE:
 ; NAME/KEY: Artificial
 ; LOCATION: 1-114
 ; OTHER INFORMATION: Heavy chain sequence derived from MAE11
 ; US-10-791-619-12

Query Match 100.0%; Score 625; DB 16; Length 114;
 Best Local Similarity 100.0%; Pred. No. 4.6e-51;
 Matches 114; Conservative 0; Mismatches 0;
 Indels 0; Gaps 0;

Qy 1 EVOLVSGGGIVOPGGSLRLSCAVGSYTSITSGYSWNWIRQAPGKLEWASITYDGSTNY 60
 Db 1 EVOLVSGGGIVOPGGSLRLSCAVGSYTSITSGYSWNWIRQAPGKLEWASITYDGSTNY 60

Qy 61 NPSVKGRTISRDDSNTFLQMNSLRAEDTAVYCARGSHYFGHWHFAVMWGQG 114
 Db 61 NPSVKGRTISRDDSNTFLQMNSLRAEDTAVYCARGSHYFGHWHFAVMWGQG 114

RESULT 4

US-09-920-171-20
 ; Sequence 20, Application US/09920171
 ; GENERAL INFORMATION:
 ; APPLICANT: Lowman, Henry B.
 ; APPLICANT: Presta, Leonard G.
 ; APPLICANT: Jardieu, Paula M.
 ; APPLICANT: Lowe, John
 ; TITLE OF INVENTION: Improved Anti-IgE Antibodies (as amended)
 ; FILE REFERENCE: P1123C2US
 ; CURRENT APPLICATION NUMBER: US/09/920, 171
 ; CURRENT FILING DATE: 2001-08-01
 ; PRIOR APPLICATION NUMBER: US 08/887, 352
 ; PRIOR FILING DATE: 1997-07-02
 ; PRIOR APPLICATION NUMBER: US 09/296, 005
 ; PRIOR FILING DATE: 1999-04-21
 ; NUMBER OF SEQ ID NOS: 44
 ; SEQ ID NO: 20
 ; LENGTH: 229
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Heavy chain F(ab) sequence derived from MAE11
 ; US-09-920-171-20

Query Match 100.0%; Score 625; DB 9; Length 229;
 Best Local Similarity 100.0%; Pred. No. 9.7e-51;
 Matches 114; Conservative 0; Mismatches 0;
 Indels 0; Gaps 0;

Qy 1 EVOLVSGGGIVOPGGSLRLSCAVGSYTSITSGYSWNWIRQAPGKLEWASITYDGSTNY 60
 Db 1 EVOLVSGGGIVOPGGSLRLSCAVGSYTSITSGYSWNWIRQAPGKLEWASITYDGSTNY 60

Qy 61 NPSVKGRTISRDDSNTFLQMNSLRAEDTAVYCARGSHYFGHWHFAVMWGQG 114
 Db 61 NPSVKGRTISRDDSNTFLQMNSLRAEDTAVYCARGSHYFGHWHFAVMWGQG 114

RESULT 5

US-10-113-996-20
 ; Sequence 20, Application US/10113996
 ; GENERAL INFORMATION:
 ; APPLICANT: Lowman, Henry B.
 ; APPLICANT: Presta, Leonard G.
 ; APPLICANT: Jardieu, Paula M.
 ; APPLICANT: Lowe, John
 ; TITLE OF INVENTION: Improved Anti-IgE Antibodies
 ; FILE REFERENCE: P1123C3US
 ; CURRENT APPLICATION NUMBER: US/10/113, 996
 ; CURRENT FILING DATE: 2002-04-01
 ; PRIOR APPLICATION NUMBER: US 08/887, 352
 ; PRIOR FILING DATE: 1997-07-02
 ; PRIOR APPLICATION NUMBER: US 09/296, 005
 ; PRIOR FILING DATE: 1999-04-21
 ; PRIOR APPLICATION NUMBER: US 09/920, 171
 ; PRIOR FILING DATE: 2001-08-01
 ; NUMBER OF SEQ ID NOS: 44
 ; SEQ ID NO: 20
 ; LENGTH: 229
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence

; FEATURE:
; OTHER INFORMATION: Heavy chain F(ab) sequence derived from MAE11
US-10-113-996-20

Query Match 100.0%; Score 625; DB 14; Length 229;
Best Local Similarity 100.0%; Pred. No. 9.7e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EVQLVEGGGLVQPGGSLRLSCAVSGYSITSGYSWNWIRQPKGLEWASITYDGSTNY 60
Db 1 EVQLVEGGGLVQPGGSLRLSCAVSGYSITSGYSWNWIRQPKGLEWASITYDGSTNY 60

Qy 61 NPSVKGRITISRDDSNTFYLQMNSLRAEDTAVYYCARGSHYFGHWFHFAVGQG 114
Db 61 NPSVKGRITISRDDSNTFYLQMNSLRAEDTAVYYCARGSHYFGHWFHFAVGQG 114

RESULT 6
US-10-791-619-20
; Sequence 20, Application US/10791619
; GENERAL INFORMATION:
; APPLICANT: Henry B. Lowman, Leonard G. Presta, Paula M. Jardieu, John Lowe
; TITLE OF INVENTION: Improved Anti-IgE Antibodies and Method of Improving Polypeptides
; FILE REFERENCE: P1123R1
; CURRENT APPLICATION NUMBER: US/10/791,619
; CURRENT FILING DATE: 2004-03-02
; PRIOR APPLICATION NUMBER: US/09/1109,207
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/051,554
; PRIOR FILING DATE: 1997-07-03
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 20
; LENGTH: 229
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; NAME/KEY: Artificial
; LOCATION: 1-229
; OTHER INFORMATION: Heavy chain F(ab) sequence derived from MAE11
US-10-791-619-20

Query Match 100.0%; Score 625; DB 16; Length 229;
Best Local Similarity 100.0%; Pred. No. 9.7e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EVQLVEGGGLVQPGGSLRLSCAVSGYSITSGYSWNWIRQPKGLEWASITYDGSTNY 60
Db 1 EVQLVEGGGLVQPGGSLRLSCAVSGYSITSGYSWNWIRQPKGLEWASITYDGSTNY 60

Qy 61 NPSVKGRITISRDDSNTFYLQMNSLRAEDTAVYYCARGSHYFGHWFHFAVGQG 114
Db 61 NPSVKGRITISRDDSNTFYLQMNSLRAEDTAVYYCARGSHYFGHWFHFAVGQG 114

RESULT 7
US-09-920-171-25
; Sequence 25, Application US/09920171
; Patent No. US20020054878A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; PRESTA, Leonard G.
; JARDIEU, Paul M.
; LOWE, John
; TITLE OF INVENTION: Improved Anti-IgE Antibodies (as amended)
; FILE REFERENCE: P1123C2US
; CURRENT APPLICATION NUMBER: US/09/920,171
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: US 09/920,171
; PRIOR FILING DATE: 2001-08-01
; NUMBER OF SEQ ID NOS: 44
; LENGTH: 233
; SEQ ID NO 25
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Heavy chain F(ab) sequence derived from MAE11
US-10-113-996-25

Query Match 100.0%; Score 625; DB 14; Length 233;
Best Local Similarity 100.0%; Pred. No. 9.9e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EVQLVEGGGLVQPGGSLRLSCAVSGYSITSGYSWNWIRQPKGLEWASITYDGSTNY 60
Db 1 EVQLVEGGGLVQPGGSLRLSCAVSGYSITSGYSWNWIRQPKGLEWASITYDGSTNY 60

Qy 61 NPSVKGRITISRDDSNTFYLQMNSLRAEDTAVYYCARGSHYFGHWFHFAVGQG 114
Db 61 NPSVKGRITISRDDSNTFYLQMNSLRAEDTAVYYCARGSHYFGHWFHFAVGQG 114

RESULT 9
US-10-791-619-25
; Sequence 25, Application US/10791619
; Publication No. US20040259077A1
; GENERAL INFORMATION:
; APPLICANT: Henry B. Lowman, Leonard G. Presta, Paula M. Jardieu, John Lowe
; TITLE OF INVENTION: Improved Anti-IgE Antibodies and Method of Improving Polypeptides
; FILE REFERENCE: P1123R1
; CURRENT APPLICATION NUMBER: US/10/791,619
; CURRENT FILING DATE: 2004-03-02
; PRIOR APPLICATION NUMBER: US/09/109,207
; NUMBER OF SEQ ID NOS: 44

PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/051,554
; PRIOR FILING DATE: 1997-07-03
; SEQ ID NO: 44
; NUMBER OF SEQ ID NOS: 44
; LENGTH: 233
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; NAME/KEY: Artificial sequence
; LOCATION: 1-233
; OTHER INFORMATION: Heavy chain F(ab)'2 sequence derived from MAE11
; US-10-791-619-25

Query Match 100.0%; Score 625; DB 16; Length 233;
Best Local Similarity 100.0%; Pred. No. 9.9e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EVOLVESGGGLVQPGGSLRLSCAVGSYTSIGYSWNWIRQAPGKLEWASITYDGSTNY 60
Db 1 EVOLVESGGGLVQPGGSLRLSCAVGSYTSIGYSWNWIRQAPGKLEWASITYDGSTNY 60
Db 61 NPSVKGRITISRDDSNTFLQMNLSRAEDTAVYCCARSHYFGHWFIAVGQG 114
Db 61 NPSVKGRITISRDDSNTFLQMNLSRAEDTAVYCCARSHYFGHWFIAVGQG 114

RESULT 10
US-09-920-171-22
; Sequence 22, Application US/09920171
; Patent No. US20020054878A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Leonard B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IgE Antibodies (as amended)
; FILE REFERENCE: P1123C2US
; CURRENT APPLICATION NUMBER: US/09/920,171
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1997-04-21
; SEQ ID NO: 22
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: sFv sequence derived from MAE11
; US-09-920-171-22

Query Match 100.0%; Score 625; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 1.1e-50;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EVOLVESGGGLVQPGGSLRLSCAVGSYTSIGYSWNWIRQAPGKLEWASITYDGSTNY 60
Db 1 EVOLVESGGGLVQPGGSLRLSCAVGSYTSIGYSWNWIRQAPGKLEWASITYDGSTNY 60
Db 61 NPSVKGRITISRDDSNTFLQMNLSRAEDTAVYCCARSHYFGHWFIAVGQG 114
Db 61 NPSVKGRITISRDDSNTFLQMNLSRAEDTAVYCCARSHYFGHWFIAVGQG 114

RESULT 11
US-10-113-996-22
; Sequence 22, Application US/10113996
; Publication No. US20030149244A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.

RESULT 13

US-09-920-171-14
 ; Sequence 14, Application US/099220171
 ; Patent No. US20020054878A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Lowman, Henry B.
 ; APPLICANT: Presta, Leonard G.
 ; APPLICANT: Jardieu, Paula M.
 ; APPLICANT: Lowe, John
 ; TITLE OF INVENTION: Improved Anti-IgE Antibodies (as amended)
 ; FILE REFERENCE: P1123C2US
 ; CURRENT APPLICATION NUMBER: US/09/920,171
 ; CURRENT FILING DATE: 2001-08-01
 ; PRIOR APPLICATION NUMBER: US 08/887,352
 ; PRIOR FILING DATE: 1997-07-02
 ; PRIOR APPLICATION NUMBER: US 09/296,005
 ; PRIOR FILING DATE: 1999-04-21
 ; NUMBER OF SEQ ID NOS: 44
 ; SEQ ID NO 14
 ; LENGTH: 451
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Heavy chain sequence derived from MAE11
 ; US-09-920-171-14

Query Match 100.0%; Score 625; DB 9; Length 451;
 Best Local Similarity 100.0%; Pred. No. 2e-30; Indels 0; Gaps 0;
 Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 SEQ ID NO 65

Qy 1 EVQLVESGGGLVQPGGSLRLSCAVSGYTSITGSYNNWIROAPGKGLEWASITYDGSTNY 60
 Db 1 EVQLVESGGGLVQPGGSLRLSCAVSGYTSITGSYNNWIROAPGKGLEWASITYDGSTNY 60

Qy 61 NPSVKGRTISRDDSNTFYLQMNSLRAEDTAVYTCARGSHYFGHWFAYWGQG 114
 Db 61 NPSVKGRTISRDDSNTFYLQMNSLRAEDTAVYTCARGSHYFGHWFAYWGQG 114

RESULT 14
 US-09-920-171-16
 ; Sequence 16, Application US/099220171
 ; Patent No. US20020054878A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Lowman, Henry B.
 ; APPLICANT: Presta, Leonard G.
 ; APPLICANT: Jardieu, Paula M.
 ; APPLICANT: Lowe, John
 ; TITLE OF INVENTION: Improved Anti-IgE Antibodies (as amended)
 ; FILE REFERENCE: P1123C2US
 ; CURRENT APPLICATION NUMBER: US/09/920,171
 ; CURRENT FILING DATE: 2001-08-01
 ; PRIOR APPLICATION NUMBER: US 08/887,352
 ; PRIOR FILING DATE: 1997-07-02
 ; PRIOR APPLICATION NUMBER: US 09/296,005
 ; PRIOR FILING DATE: 1999-04-21
 ; NUMBER OF SEQ ID NOS: 44
 ; SEQ ID NO 16
 ; LENGTH: 451
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Heavy chain sequence derived from MAE11

Query Match 100.0%; Score 625; DB 9; Length 451;
 Best Local Similarity 100.0%; Pred. No. 2e-50; Indels 0; Gaps 0;
 Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EVQLVESGGGLVQPGGSLRLSCAVSGYTSITGSYNNWIROAPGKGLEWASITYDGSTNY 60
 Db 1 EVQLVESGGGLVQPGGSLRLSCAVSGYTSITGSYNNWIROAPGKGLEWASITYDGSTNY 60

Qy 61 NPSVKGRTISRDDSNTFYLQMNSLRAEDTAVYTCARGSHYFGHWFAYWGQG 114
 Db 61 NPSVKGRTISRDDSNTFYLQMNSLRAEDTAVYTCARGSHYFGHWFAYWGQG 114

Search completed: June 7, 2005, 10:16:26
 Job time : 30.0205 secs

US-09-920-171-16
 ; Sequence 16, Application US/099220171
 ; Patent No. US20020054878A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Lowman, Henry B.
 ; APPLICANT: Presta, Leonard G.
 ; APPLICANT: Jardieu, Paula M.
 ; APPLICANT: Lowe, John
 ; TITLE OF INVENTION: Improved Anti-IgE Antibodies (as amended)
 ; FILE REFERENCE: P1123C2US
 ; CURRENT APPLICATION NUMBER: US/09/920,171
 ; CURRENT FILING DATE: 2001-08-01
 ; PRIOR APPLICATION NUMBER: US 08/887,352
 ; PRIOR FILING DATE: 1997-07-02
 ; PRIOR APPLICATION NUMBER: US 09/296,005
 ; PRIOR FILING DATE: 1999-04-21
 ; NUMBER OF SEQ ID NOS: 44
 ; SEQ ID NO 16
 ; LENGTH: 451
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Heavy chain sequence derived from MAE11

Query Match 100.0%; Score 625; DB 9; Length 451;
 Best Local Similarity 100.0%; Pred. No. 2e-50; Indels 0; Gaps 0;
 Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EVQLVESGGGLVQPGGSLRLSCAVSGYTSITGSYNNWIROAPGKGLEWASITYDGSTNY 60
 Db 1 EVQLVESGGGLVQPGGSLRLSCAVSGYTSITGSYNNWIROAPGKGLEWASITYDGSTNY 60

Qy 61 NPSVKGRTISRDDSNTFYLQMNSLRAEDTAVYTCARGSHYFGHWFAYWGQG 114

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Result	Query	Match	Length	DB ID	Description
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3	623	100.0	114	16	US-10-794-619-11
4	623	100.0	229	9	US-09-920-171-21
5	623	100.0	229	14	US-10-113-996-21
6	623	100.0	229	16	US-10-794-619-21
7	623	100.0	233	9	US-09-920-171-26
8	623	100.0	233	14	US-10-113-996-26
9	623	100.0	233	16	US-10-794-619-26
10	623	100.0	248	9	US-09-920-171-23
11	623	100.0	248	14	US-10-113-996-23
12	623	100.0	248	16	US-10-794-619-23
13	623	100.0	451	9	US-09-920-171-18
14	623	100.0	451	10	US-09-792-938-2
15	623	100.0	451	14	US-10-113-996-18
16	623	100.0	451	14	US-10-292-869-2
17	623	100.0	451	16	US-10-835-642-2
18	623	100.0	451	16	US-10-835-863-2
19	623	100.0	451	16	US-10-757-863-2
20	603	96.8	114	9	US-10-791-619-18
21	603	96.8	114	14	US-10-113-996-12
22	603	96.8	114	16	US-10-791-619-12
23	603	96.8	229	14	US-10-113-996-20
24	603	96.8	229	16	US-10-113-996-20
25	603	96.8	229	16	US-10-791-619-20
26	603	96.8	233	9	US-09-920-171-25
27	603	96.8	233	14	US-10-113-996-25
28	603	96.8	233	16	US-10-791-619-25
29	603	96.8	248	9	US-09-920-171-22
30	603	96.8	248	14	US-10-113-996-22
31	603	96.8	248	16	US-10-791-619-22
32	603	96.8	248	16	US-10-791-619-22
33	603	96.8	451	9	US-09-920-171-14
34	603	96.8	451	10	US-09-925-179-65
35	603	96.8	451	14	US-10-113-996-14
36	603	96.8	451	14	US-10-113-996-16
37	603	96.8	451	16	US-10-813-483-4
38	603	96.8	451	16	US-10-813-483-5
39	603	96.8	451	16	US-10-791-619-4
40	603	96.8	451	16	US-10-791-619-16
41	603	96.8	669	16	US-10-764-428-1
42	600	96.3	451	10	US-09-925-179-66
43	583	93.6	121	9	US-09-920-171-3
44	583	93.6	121	14	US-10-113-996-3
45	583	93.6	121	16	US-10-791-619-3

Db 61 NPSVKGRITISRDDSNTFLQMNSLRAEDTAVYCARSHYFGHWFHFAWGQG 114
 RESULT 2
 US-10-113-996-11
 ; Sequence 11, Application US/10113996
 ; Publication No. US20030149244A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Lowman, Henry B.
 ; APPLICANT: Presta, Leonard G.
 ; APPLICANT: Jardieu, Paula M.
 ; APPLICANT: Lowe, John
 ; TITLE OF INVENTION: Improved Anti-IgE Antibodies
 ; FILE REFERENCE: P1123C3US
 ; CURRENT APPLICATION NUMBER: US/110/113,996
 ; CURRENT FILING DATE: 2002-04-01
 ; PRIOR APPLICATION NUMBER: US 08/887,352
 ; PRIOR FILING DATE: 1997-07-02
 ; PRIOR APPLICATION NUMBER: US 09/296,005
 ; PRIOR FILING DATE: 1999-04-21
 ; PRIOR APPLICATION NUMBER: US 09/920,171
 ; PRIOR FILING DATE: 2001-08-01
 ; NUMBER OF SEQ ID NOS: 44
 ; SEQ ID NO 11
 ; LENGTH: 114
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Heavy chain sequence derived from MAE11
 ; US-10-113-996-11

Query Match 100.0%; Score 623; DB 14; Length 114;
 Best Local Similarity 100.0%; Pred. No. 2e-51;
 Matches 114; Conservative 0; Mismatches 0;
 Indels 0; Gaps 0;

Db 61 NPSVKGRITISRDDSNTFLQMNSLRAEDTAVYCARSHYFGHWFHFAWGQG 114
 Db 61 NPSVKGRITISRDDSNTFLQMNSLRAEDTAVYCARSHYFGHWFHFAWGQG 114
 RESULT 3
 US-10-791-619-11
 ; Sequence 11, Application US/10791619
 ; Publication No. US20040259077A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Henry B. Lowman, Leonard G. Presta, Paula M. Jardieu, John Lowe
 ; TITLE OF INVENTION: Improved Anti-IgE Antibodies and Method of Improving Polypeptides
 ; FILE REFERENCE: P1123C3U1
 ; CURRENT APPLICATION NUMBER: US/10/791,619
 ; CURRENT FILING DATE: 2004-03-02
 ; PRIOR APPLICATION NUMBER: US/09/109,207
 ; PRIOR FILING DATE: 1998-06-30
 ; PRIOR APPLICATION NUMBER: US 60/051,554
 ; PRIOR FILING DATE: 1997-07-03
 ; NUMBER OF SEQ ID NOS: 44
 ; SEQ ID NO 11
 ; LENGTH: 114
 ; TYPE: PRT
 ; ORGANISM: Artificial
 ; FEATURE:
 ; NAME/KEY: Artificial
 ; LOCATION: 1-114
 ; OTHER INFORMATION: Heavy chain sequence derived from MAE11
 ; US-10-791-619-11

Query Match 100.0%; Score 623; DB 16; Length 114;
 Best Local Similarity 100.0%; Pred. No. 2e-51;
 Matches 114; Conservative 0; Mismatches 0;
 Indels 0; Gaps 0;

Qy 1 EVQLVEGGGLVQPGGSLRLSCAVSGYSITSGYSNWIRQAPGKGLEWASIKYSGETKY 60
 Db 1 EVQLVEGGGLVQPGGSLRLSCAVSGYSITSGYSNWIRQAPGKGLEWASIKYSGETKY 60
 Qy 1 EVQLVEGGGLVQPGGSLRLSCAVSGYSITSGYSNWIRQAPGKGLEWASIKYSGETKY 60
 Db 1 EVQLVEGGGLVQPGGSLRLSCAVSGYSITSGYSNWIRQAPGKGLEWASIKYSGETKY 60
 RESULT 4
 US-09-920-171-21
 ; Sequence 21, Application US/09920171
 ; Patent No. US2003054878A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Lowman, Henry B.
 ; APPLICANT: Presta, Leonard G.
 ; APPLICANT: Jardieu, Paula M.
 ; APPLICANT: Lowe, John
 ; TITLE OF INVENTION: Improved Anti-IgE Antibodies (as amended)
 ; FILE REFERENCE: P1123C2US
 ; CURRENT APPLICATION NUMBER: US/09/920,171
 ; CURRENT FILING DATE: 2001-08-01
 ; PRIOR APPLICATION NUMBER: US 08/887,352
 ; PRIOR FILING DATE: 1997-07-02
 ; PRIOR APPLICATION NUMBER: US 09/296,005
 ; PRIOR FILING DATE: 1999-04-21
 ; NUMBER OF SEQ ID NOS: 44
 ; SEQ ID NO 21
 ; LENGTH: 229
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Heavy chain F(ab) derived from MAE11
 ; US-09-920-171-21

Query Match 100.0%; Score 623; DB 9; Length 229;
 Best Local Similarity 100.0%; Pred. No. 4.2e-51;
 Matches 114; Conservative 0; Mismatches 0;
 Indels 0; Gaps 0;

Qy 1 EVQLVEGGGLVQPGGSLRLSCAVSGYSITSGYSNWIRQAPGKGLEWASIKYSGETKY 60
 Db 1 EVQLVEGGGLVQPGGSLRLSCAVSGYSITSGYSNWIRQAPGKGLEWASIKYSGETKY 60
 Qy 1 EVQLVEGGGLVQPGGSLRLSCAVSGYSITSGYSNWIRQAPGKGLEWASIKYSGETKY 60
 Db 1 EVQLVEGGGLVQPGGSLRLSCAVSGYSITSGYSNWIRQAPGKGLEWASIKYSGETKY 60
 RESULT 5
 US-10-113-996-21
 ; Sequence 21, Application US/10113996
 ; Publication No. US0030149244A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Lowman, Henry B.
 ; APPLICANT: Presta, Leonard G.
 ; APPLICANT: Jardieu, Paula M.
 ; APPLICANT: Lowe, John
 ; TITLE OF INVENTION: Improved Anti-IgE Antibodies
 ; FILE REFERENCE: P1123C3US
 ; CURRENT APPLICATION NUMBER: US/10/113,996
 ; CURRENT FILING DATE: 2002-04-01
 ; PRIOR APPLICATION NUMBER: US 08/887,352
 ; PRIOR FILING DATE: 1997-07-02
 ; PRIOR APPLICATION NUMBER: US 09/296,005
 ; PRIOR FILING DATE: 1999-04-21
 ; PRIOR APPLICATION NUMBER: US 09/920,171
 ; NUMBER OF SEQ ID NOS: 44
 ; SEQ ID NO 21
 ; LENGTH: 229
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence

RESULT 6
; Sequence 21, Application US/10791-619-21
; GENERAL INFORMATION:
; APPLICANT: Henry B. Lowman, Leonard G. Presta, Paula M. Jardieu, John Lowe
; TITLE OF INVENTION: Improved Anti-IgE Antibodies and Method of Improving Polypeptides
; FILE REFERENCE: P112351
; CURRENT APPLICATION NUMBER: US/10-791,619
; CURRENT FILING DATE: 2004-03-02
; PRIOR APPLICATION NUMBER: US/09/109,207
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/051,554
; PRIOR FILING DATE: 1997-07-03
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 21
; LENGTH: 229
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; NAME/KEY: Artificial
; LOCATION: 1-229
; OTHER INFORMATION: Heavy chain F(ab) derived from MAE11
US-10-791-619-21

Query Match 100.0%; Score 623; DB 14; Length 229;
Best Local Similarity 100.0%; Pred. No. 4.2e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 EVQLEVSQGGGVQPGGSLRLSCAVSGYSITSGYSNNWIROAPGKGLEWASIKYSGETKY 60
Db 1 EVQLEVSQGGGVQPGGSLRLSCAVSGYSITSGYSNNWIROAPGKGLEWASIKYSGETKY 60

Qy 61 NPSVKGRITISRDDSKNTFYLQMNSLRAEDTAVYYCARGSHYFGHWFAYWGQ 114
Db 61 NPSVKGRITISRDDSKNTFYLQMNSLRAEDTAVYYCARGSHYFGHWFAYWGQ 114

RESULT 7
; Sequence 26, Application US/09920171
; Patent No. US20020054878A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IgE Antibodies (as amended)
; FILE REFERENCE: P112362US
; CURRENT APPLICATION NUMBER: US/09/920,171
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 09/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: US 09/920,171
; PRIOR FILING DATE: 2001-08-01
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 26
; LENGTH: 233
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Heavy chain F(ab) derived from MAE11
US-09-920-171-26

Query Match 100.0%; Score 623; DB 14; Length 229;
Best Local Similarity 100.0%; Pred. No. 4.3e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 EVQLEVSQGGGVQPGGSLRLSCAVSGYSITSGYSNNWIROAPGKGLEWASIKYSGETKY 60
Db 1 EVQLEVSQGGGVQPGGSLRLSCAVSGYSITSGYSNNWIROAPGKGLEWASIKYSGETKY 60

Qy 61 NPSVKGRITISRDDSKNTFYLQMNSLRAEDTAVYYCARGSHYFGHWFAYWGQ 114
Db 61 NPSVKGRITISRDDSKNTFYLQMNSLRAEDTAVYYCARGSHYFGHWFAYWGQ 114

RESULT 8
; Sequence 26, Application US/10113996
; Sequence 26, Application US/10113996
; Publication No. US20030149244A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IgE Antibodies
; FILE REFERENCE: P112363US
; CURRENT APPLICATION NUMBER: US/10/113,996
; CURRENT FILING DATE: 2002-04-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: US 09/920,171
; PRIOR FILING DATE: 2001-08-01
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 26
; LENGTH: 233
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Heavy chain F(ab) derived from MAE11
US-10-113-996-26

Query Match 100.0%; Score 623; DB 14; Length 233;
Best Local Similarity 100.0%; Pred. No. 4.3e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 EVQLEVSQGGGVQPGGSLRLSCAVSGYSITSGYSNNWIROAPGKGLEWASIKYSGETKY 60
Db 1 EVQLEVSQGGGVQPGGSLRLSCAVSGYSITSGYSNNWIROAPGKGLEWASIKYSGETKY 60

Qy 61 NPSVKGRITISRDDSKNTFYLQMNSLRAEDTAVYYCARGSHYFGHWFAYWGQ 114
Db 61 NPSVKGRITISRDDSKNTFYLQMNSLRAEDTAVYYCARGSHYFGHWFAYWGQ 114

RESULT 9
; Sequence 26, Application US/10791619
; Publication No. US20040259077A1
; GENERAL INFORMATION:
; APPLICANT: Henry B. Lowman, Leonard G. Presta, Paula M. Jardieu, John Lowe
; TITLE OF INVENTION: Improved Anti-IgE Antibodies and Method of Improving Polypeptides
; FILE REFERENCE: P112361
; CURRENT APPLICATION NUMBER: US/10/791,619
; CURRENT FILING DATE: 2004-03-02
; PRIOR APPLICATION NUMBER: US/09/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 26
; LENGTH: 233
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Heavy chain F(ab) derived from MAE11
US-10-791-619-26

Query Match 100.0%; Score 623; DB 14; Length 233;
Best Local Similarity 100.0%; Pred. No. 4.3e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 EVQLEVSQGGGVQPGGSLRLSCAVSGYSITSGYSNNWIROAPGKGLEWASIKYSGETKY 60
Db 1 EVQLEVSQGGGVQPGGSLRLSCAVSGYSITSGYSNNWIROAPGKGLEWASIKYSGETKY 60

Qy 61 NPSVKGRITISRDDSKNTFYLQMNSLRAEDTAVYYCARGSHYFGHWFAYWGQ 114
Db 61 NPSVKGRITISRDDSKNTFYLQMNSLRAEDTAVYYCARGSHYFGHWFAYWGQ 114

PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/051,554
; PRIOR FILING DATE: 1997-07-03
; SEQ ID NO: 26
; LENGTH: 233
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; NAME/KEY: Artificial
; LOCATION: 1-233
; OTHER INFORMATION: Heavy chain F(ab)'2 sequence derived from MAE11
; US-10-791-619-26

Query Match 100.0%; Score 623; DB 16; Length 233;
Best Local Similarity 100.0%; Pred. No. 4.3e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EVOLVESGGGVOPGGSLRLSCAVGYSITSGYNNWIRQAPGKLEWAISKYSGETK 60
Db 1 EVOLVESGGGVOPGGSLRLSCAVGYSITSGYNNWIRQAPGKLEWAISKYSGETK 60
Db 61 NPSVKGRITISRDDSNTFYLQMNLSRAEDTAVYYCARGSHYFGHWFHFAWGQG 114

RESULT 10
US-09-920-171-23
; sequence 23, Application US/09920171
; Patent No. US20030054878A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IgE Antibodies (as amended)
; FILE REFERENCE: P1123C2US
; CURRENT APPLICATION NUMBER: US/09/920,171
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; SEQ ID NO: 44
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: sFv sequence derived from MAE11
; US-09-920-171-23

Query Match 100.0%; Score 623; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 4.6e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EVOLVESGGGVOPGGSLRLSCAVGYSITSGYNNWIRQAPGKLEWAISKYSGETK 60
Db 1 EVOLVESGGGVOPGGSLRLSCAVGYSITSGYNNWIRQAPGKLEWAISKYSGETK 60
Db 61 NPSVKGRITISRDDSNTFYLQMNLSRAEDTAVYYCARGSHYFGHWFHFAWGQG 114

RESULT 11
US-10-113-996-23
; Sequence 23, Application US/10113996
; Publication No. US20030149244A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.

RESULT 13

US-09-920-171-18
; Sequence 18, Application US/09920171
; General Information:
; Applicant: Lowman, Henry B.
; Applicant: Presta, Leonard G.
; Applicant: Jardieu, Paula M.
; Applicant: Lowe, John
; Title of Invention: Improved Anti-IgE Antibodies (as amended)
; File Reference: P1124C2US
; Current Application Number: US/09/920,171
; Current Filing Date: 2001-08-01
; Prior Application Number: US 08/887,352
; Prior Filing Date: 1997-07-02
; Prior Application Number: US 09/296,005
; Prior Filing Date: 1999-04-21
; SEQ ID NO 18
; LENGTH: 451
; TYPE: PRT Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Heavy chain sequence derived from MAE11

US-09-920-171-18

Query Match 100.0%; Score 623; DB 9; Length 451;
 Best Local Similarity 100.0%; Pred. No. 8.8e-51;
 Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EVQLYESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIROPGKGLEWASIKYGETKY 60
 Db 1 EVQLYESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIROPGKGLEWASIKYGETKY 60

Qy 61 NPSVKGRITISRDDSNTFYLQMNSLRAEDTAVYYCARGSHYFGHWFAYWGQG 114
 Db 61 NPSVKGRITISRDDSNTFYLQMNSLRAEDTAVYYCARGSHYFGHWFAYWGQG 114

RESULT 14
 US-09-792-938-2
; Sequence 2, Application US/09792938
; General Information:
; Applicant: Esohe Ekinaduese Iduosie et al.
; Title of Invention: Polypeptide Variants
; File Reference: P1266I
; Current Application Number: US/09/792,938
; Current Filing Date: 2001-02-26
; Prior Application Number: 09/282,505
; Prior Filing Date: 1999-03-31
; NUMBER OF SEQ ID NOS: 2
; SEQ ID NO 2
; LENGTH: 451
; TYPE: PRT Artificial Sequence
; NAME/KEY: Artificial Sequence
; LOCATION: 1-451
; OTHER INFORMATION: Sequence is completely synthesized

US-09-792-938-2

Query Match 100.0%; Score 623; DB 10; Length 451;
 Best Local Similarity 100.0%; Pred. No. 8.8e-51;
 Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EVQLYESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIROPGKGLEWASIKYGETKY 60
 Db 1 EVQLYESGGGLVQPGGSLRLSCAVSGYSITSGYSNNWIROPGKGLEWASIKYGETKY 60

Qy 61 NPSVKGRITISRDDSNTFYLQMNSLRAEDTAVYYCARGSHYFGHWFAYWGQG 114
 Db 61 NPSVKGRITISRDDSNTFYLQMNSLRAEDTAVYYCARGSHYFGHWFAYWGQG 114

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Result No.	Score	Query Match	Length	DB ID	Description	Summaries
1	596	100.0	114	9	US-09-920-171-8	Sequence 8, Appli
2	596	100.0	114	14	US-10-113-96-8	Sequence 8, Appli
3	596	100.0	114	16	US-10-191-619-8	Sequence 8, Appli
4	596	100.0	218	9	US-09-920-171-15	Sequence 15, Appli
5	596	100.0	218	9	US-09-920-171-17	Sequence 17, Appli
6	596	100.0	218	9	US-09-920-171-19	Sequence 19, Appli
7	596	100.0	218	9	US-09-920-171-24	Sequence 24, Appli
8	596	100.0	218	14	US-10-113-96-15	Sequence 15, Appli
9	596	100.0	218	14	US-10-113-96-17	Sequence 17, Appli
10	596	100.0	218	14	US-10-113-96-19	Sequence 19, Appli
11	596	100.0	218	14	US-10-113-96-24	Sequence 24, Appli
12	596	100.0	218	16	US-10-791-619-17	Sequence 15, Appli
13	596	100.0	218	16	US-10-791-619-19	Sequence 17, Appli
14	596	100.0	218	16	US-10-792-938-1	Sequence 1, Appli
15	596	100.0	218	14	US-10-292-869-1	Sequence 1, Appli
16	596	100.0	218	16	US-10-335-642-1	Sequence 1, Appli
17	594	99.7	218	14	US-10-757-863-1	Sequence 1, Appli
18	594	99.7	218	16	US-09-920-171-22	Sequence 22, Appli
19	594	99.7	218	16	US-09-920-171-23	Sequence 22, Appli
20	594	99.7	248	9	US-09-920-171-23	Sequence 22, Appli
21	587	98.5	248	9	US-09-920-171-23	Sequence 22, Appli
22	587	98.5	248	14	US-10-113-96-22	Sequence 22, Appli
23	587	98.5	248	14	US-10-113-96-23	Sequence 23, Appli
24	587	98.5	248	16	US-10-113-96-23	Sequence 23, Appli
25	587	98.5	248	16	US-10-113-96-22	Sequence 23, Appli
26	587	98.5	248	16	US-10-791-619-22	Sequence 23, Appli
27	575	96.5	114	9	US-09-920-171-9	Sequence 9, Appli
28	575	96.5	114	14	US-10-113-96-9	Sequence 9, Appli
29	575	96.5	114	16	US-10-791-619-9	Sequence 9, Appli
30	570	95.6	114	9	US-09-920-171-10	Sequence 10, Appli
31	570	95.6	114	14	US-10-113-96-10	Sequence 10, Appli
32	570	95.6	114	16	US-10-791-619-10	Sequence 10, Appli
33	570	95.6	218	9	US-09-802-077-9	Sequence 9, Appli
34	570	95.6	218	9	US-09-802-077-9	Sequence 9, Appli
35	570	95.6	218	9	US-09-920-171-13	Sequence 13, Appli
36	570	95.6	218	10	US-09-925-179-9	Sequence 9, Appli
37	570	95.6	218	14	US-10-113-96-13	Sequence 13, Appli
38	570	95.6	218	16	US-10-813-983-1	Sequence 1, Appli
39	570	95.6	218	16	US-10-791-619-13	Sequence 13, Appli
40	570	95.6	669	16	US-10-764-428-21	Sequence 21, Appli
41	570	95.6	669	16	US-10-764-428-23	Sequence 23, Appli
42	556	93.3	111	9	US-09-920-171-6	Sequence 6, Appli
43	556	93.3	111	14	US-10-113-96-6	Sequence 6, Appli
44	556	93.3	111	16	US-10-791-619-6	Sequence 6, Appli
45	555	93.1	218	10	US-09-925-179-67	Sequence 67, Appli
ALIGNMENTS						
RESULT 1						
US-09-920-171-8						
; Sequence 8, Application US/09920171						
; Patent No. US20020054878A1						
; GENERAL INFORMATION:						
; APPLICANT: Lowman, Henry B.						
; APPLICANT: Presta, Leonard G.						
; APPLICANT: Jardie, Paula M.						
; APPLICANT: Lowe, John						
; TITLE OF INVENTION: Improved Anti-IgE Antibodies (as amended)						
; FILE REFERENCE: P112/C2US						
; CURRENT APPLICATION NUMBER: US/09/920,171						
; CURRENT FILING DATE: 2001-08-01						
; PRIOR APPLICATION NUMBER: US/08/887,352						
; PRIOR FILING DATE: 1997-07-02						
; PRIOR APPLICATION NUMBER: US/09/296,005						
; PRIOR FILING DATE: 1999-04-21						
; NUMBER OF SEQ ID NOS: 44						
; SEQ ID NO: 8						
; LENGTH: 114						
; TYPE: PRT						
; ORGANISM: Artificial Sequence						
; OTHER INFORMATION: Light chain sequence derived from MAE11						
; US-09-920-171-8						
; Query Match						
; Score 596; DB 9; Length 114;						
; Best Local Similarity 100.0%; Pred. No. 2.3e-42;						
; Matches 114; Consistency 0; Mismatches 0; Indels 0; Gaps 0;						
; 1 DQLQTSPSSLSASVCDRVTITCRASKPVDPGDSYLNYYQKPGKAPKLLIAYASYLES 60						
; 1 DQLQTSPSSLSASVCDRVTITCRASKPVDPGDSYLNWTQQKPGKAPKLLIAYASYLES 60						
; 1 GVPSRFSGSGSGTDFLTISLQPEDATYCQSSHEPDYTFGGTKEIKRTV 114						

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	596	100.0	114	9	US-09-920-171-8
2	596	100.0	114	14	US-10-113-96-8
3	596	100.0	114	16	US-10-191-619-8
4	596	100.0	218	9	US-09-920-171-15
5	596	100.0	218	9	US-09-920-171-17
6	596	100.0	218	9	US-09-920-171-19
7	596	100.0	218	9	US-09-920-171-24
8	596	100.0	218	14	US-10-113-96-15
9	596	100.0	218	14	US-10-113-96-17
10	596	100.0	218	14	US-10-113-96-19
11	596	100.0	218	14	US-10-113-96-24
12	596	100.0	218	16	US-10-813-483-2

Db 61 GVPSPFGSGSGTDFLTISLQPEDFATYCQOSHEDPYFGGTKEIKRTV 114
RESULT 2
US-10-113-996-8
; Sequence 8, Application US/10113996
; Publication No. US20030149244A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IgE Antibodies
; FILE REFERENCE: P1123C3US
; CURRENT APPLICATION NUMBER: US/10/113,996
; CURRENT FILING DATE: 2002-04-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: US 09/920,171
; PRIOR FILING DATE: 2001-08-01
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 8
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Light chain sequence derived from MAE11
; US-10-113-996-8

Query Match 100.0%; Score 596; DB 14; Length 114;
Best Local Similarity 100.0%; Pred. No. 2.3e-42;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 DIQLTQSPSSLSASVGDRVTITCRASKPVDFGDSYLNWYQQKPGKAPKLIVYAASTLES 60
Db 1 DIQLTQSPSSLSASVGDRVTITCRASKPVDFGDSYLNWYQQKPGKAPKLIVYAASTLES 60

Qy 61 GVPSPFGSGSGTDFLTISLQPEDFATYCQOSHEDPYFGGTKEIKRTV 114
Db 61 GVPSPFGSGSGTDFLTISLQPEDFATYCQOSHEDPYFGGTKEIKRTV 114

RESULT 3
US-10-791-619-8
; Sequence 8, Application US/10791619
; Publication No. US20040259077A1
; GENERAL INFORMATION:
; APPLICANT: Henry B. Lowman, Leonard G. Presta, Paula M. Jardieu, John Lowe
; TITLE OF INVENTION: Improved Anti-IgE Antibodies and Method of Improving Polypeptides
; FILE REFERENCE: P1123C1
; CURRENT APPLICATION NUMBER: US/10/791,619
; CURRENT FILING DATE: 2004-03-02
; PRIOR APPLICATION NUMBER: US/09/1109,207
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/051,554
; PRIOR FILING DATE: 1997-07-03
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 8
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; NAME/KEY: Artificial
; LOCATION: 1-114
; OTHER INFORMATION: Light chain sequence derived from MAE11
; US-10-791-619-8

Query Match 100.0%; Score 596; DB 16; Length 114;
Best Local Similarity 100.0%; Pred. No. 2.3e-42; Mismatches 0; Indels 0; Gaps 0;

US-09-920-171-19
 Query Match 100.0%; Score 596; DB 9; Length 218;
 Best Local Similarity 100.0%; Pred. No. 4.5e-42;
 Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OTHER INFORMATION: Light chain F(ab)'2 sequence derived from MAE11

Qy 1 DIQLTQSPSSLASVGDRVTITCRASKPVDGDSVLNWYQKPGKAPKLIIAYASLES 60
 Db 1 DIQLTQSPSSLASVGDRVTITCRASKPVDGDSVLNWYQKPGKAPKLIIAYASLES 60

Qy 61 GVPSRSGSGSGTDFLTISLQPEDFATYCCQSHEDPYTGGTKEIKRTV 114
 Db 61 GVPSRSGSGSGTDFLTISLQPEDFATYCCQSHEDPYTGGTKEIKRTV 114

RESULT 6
 US-09-920-171-19
 Sequence 19, Application US/09920171
 Patent No. US2002005488A1

GENERAL INFORMATION:
 APPLICANT: Lowman, Henry B.
 APPLICANT: Presta, Leonard G.
 APPLICANT: Jardieu, Paula M.
 APPLICANT: Lowe, John

TITLE OF INVENTION: Improved Anti-IgE Antibodies

FILE REFERENCE: P1123C2US

CURRENT APPLICATION NUMBER: US/09/920,171
 CURRENT FILING DATE: 2001-08-01
 PRIOR APPLICATION NUMBER: US 08/887,352
 PRIOR FILING DATE: 1997-07-02
 PRIOR APPLICATION NUMBER: US 09/296,005
 PRIOR FILING DATE: 1999-04-21
 NUMBER OF SEQ ID NOS: 44
 SEQ ID NO 19
 LENGTH: 218
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Light chain F (ab) sequence derived from MAE11
 US-09-920-171-19

Query Match 100.0%; Score 596; DB 9; Length 218;
 Best Local Similarity 100.0%; Pred. No. 4.5e-42;
 Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OTHER INFORMATION: Light chain sequence derived from MAE11

Qy 1 DIQLTQSPSSLASVGDRVTITCRASKPVDGDSVLNWYQKPGKAPKLIIAYASLES 60
 Db 1 DIQLTQSPSSLASVGDRVTITCRASKPVDGDSVLNWYQKPGKAPKLIIAYASLES 60

Qy 61 GVPSRSGSGSGTDFLTISLQPEDFATYCCQSHEDPYTGGTKEIKRTV 114
 Db 61 GVPSRSGSGSGTDFLTISLQPEDFATYCCQSHEDPYTGGTKEIKRTV 114

RESULT 7
 US-09-920-171-24
 Sequence 24, Application US/09920171
 Patent No. US2002005488A1

GENERAL INFORMATION:
 APPLICANT: Lowman, Henry B.
 APPLICANT: Presta, Leonard G.
 APPLICANT: Jardieu, Paula M.
 APPLICANT: Lowe, John

TITLE OF INVENTION: Improved Anti-IgE Antibodies

FILE REFERENCE: P1123C2US

CURRENT APPLICATION NUMBER: US/09/920,171
 CURRENT FILING DATE: 2001-08-01
 PRIOR APPLICATION NUMBER: US 08/887,352
 PRIOR FILING DATE: 1997-07-02
 PRIOR FILING DATE: 1999-04-21
 NUMBER OF SEQ ID NOS: 44
 SEQ ID NO 15

LENGTH: 218
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Light chain sequence derived from MAE11
 US-10-113-96-15

Query Match 100.0%; Score 596; DB 14; Length 218;
 Best Local Similarity 100.0%; Pred. No. 4.5e-42;
 Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DIQLTQSPSSLASVGDRVTITCRASKPVDGDSVLNWYQKPGKAPKLIIAYASLES 60
 Db 1 DIQLTQSPSSLASVGDRVTITCRASKPVDGDSVLNWYQKPGKAPKLIIAYASLES 60

Qy 61 GVPSRSGSGSGTDFLTISLQPEDFATYCCQSHEDPYTGGTKEIKRTV 114
 Db 61 GVPSRSGSGSGTDFLTISLQPEDFATYCCQSHEDPYTGGTKEIKRTV 114

RESULT 8
 US-10-113-96-15
 Sequence 15, Application US/10113996
 Publication No. US2003014924A1

GENERAL INFORMATION:
 APPLICANT: Lowman, Henry B.
 APPLICANT: Presta, Leonard G.
 APPLICANT: Jardieu, Paula M.
 APPLICANT: Lowe, John

TITLE OF INVENTION: Improved Anti-IgE Antibodies

FILE REFERENCE: P1123C3US

CURRENT APPLICATION NUMBER: US/10/113,996
 CURRENT FILING DATE: 2002-04-01
 PRIOR APPLICATION NUMBER: US 08/887,352
 PRIOR FILING DATE: 1997-07-02
 PRIOR APPLICATION NUMBER: US 09/296,005
 PRIOR FILING DATE: 1999-04-21
 PRIOR APPLICATION NUMBER: US 09/920,171
 PRIOR FILING DATE: 2001-08-01
 NUMBER OF SEQ ID NOS: 44

SEQ ID NO 15

LENGTH: 218
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Light chain sequence derived from MAE11
 US-10-113-96-15

Query Match 100.0%; Score 596; DB 14; Length 218;
 Best Local Similarity 100.0%; Pred. No. 4.5e-42;
 Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DIQLTQSPSSLASVGDRVTITCRASKPVDGDSVLNWYQKPGKAPKLIIAYASLES 60
 Db 1 DIQLTQSPSSLASVGDRVTITCRASKPVDGDSVLNWYQKPGKAPKLIIAYASLES 60

Qy 61 GVPSRSGSGSGTDFLTISLQPEDFATYCCQSHEDPYTGGTKEIKRTV 114
 Db 61 GVPSRSGSGSGTDFLTISLQPEDFATYCCQSHEDPYTGGTKEIKRTV 114

RESULT 9
 US-10-113-96-17
 Sequence 17, Application US/10113996
 Publication No. US2003014924A1

GENERAL INFORMATION:
 APPLICANT: Lowman, Henry B.
 APPLICANT: Presta, Leonard G.
 APPLICANT: Jardieu, Paula M.
 APPLICANT: Lowe, John

TITLE OF INVENTION: Improved Anti-IgE Antibodies

FILE REFERENCE: P1123C3US

CURRENT APPLICATION NUMBER: US/09/920,171
 CURRENT FILING DATE: 2001-08-01
 PRIOR APPLICATION NUMBER: US 08/887,352
 PRIOR FILING DATE: 1997-07-02
 PRIOR FILING DATE: 1999-04-21
 NUMBER OF SEQ ID NOS: 44
 SEQ ID NO 15

CURRENT FILING DATE: 2002-04-01
 / PRIOR APPLICATION NUMBER: US 08/887,352
 / PRIOR FILING DATE: 1997-07-02
 / PRIOR APPLICATION NUMBER: US 09/296,005
 / PRIOR FILING DATE: 1999-04-21
 / PRIOR APPLICATION NUMBER: US 09/920,171
 / PRIOR FILING DATE: 2001-08-01
 / NUMBER OF SEQ ID NOS: 44
 / SEQ ID NO 17
 / LENGTH: 218
 / TYPE: PRT
 / ORGANISM: Artificial Sequence
 / FEATURE:
 / OTHER INFORMATION: Light chain sequence derived from MAE11
 US-10-113-996-17

Query Match 100.0%; Score 596; DB 14; Length 218;
 Best Local Similarity 100.0%; Pred. No. 4.5e-42;
 Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 / SEQ ID NO 24
 / LENGTH: 218
 / TYPE: PRT
 / ORGANISM: Artificial Sequence
 / FEATURE:
 / OTHER INFORMATION: Light chain F(ab)'2 sequence derived from MAE11
 US-10-113-996-24

Qy 1 DIQLTQSPSSLASAVGDRVTITCRASKPVDGDSYLNWYQQKPGSKAPKLIIAYASLES 60
 Db 1 DIQLTQSPSSLASAVGDRVTITCRASKPVDGDSYLNWYQQKPGSKAPKLIIAYASLES 60

Qy 61 GVPSRFGSGGTDFLTISLQPEDFATYCCQSHEDPYFGQTKVEIKRTV 114
 Db 61 GVPSRFGSGGTDFLTISLQPEDFATYCCQSHEDPYFGQTKVEIKRTV 114

RESULT 10
 US-10-113-996-19
 / Sequence 19, Application US/10113996
 / Publication No. US20030149244A1
 / GENERAL INFORMATION:
 / APPLICANT: Lowman, Henry B.
 / APPLICANT: Presta, Leonard G.
 / APPLICANT: Jardieu, Paula M.
 / APPLICANT: Lowe, John
 / TITLE OF INVENTION: Improved Anti-IgE Antibodies
 / FILE REFERENCE: P1123C3US
 / CURRENT FILING NUMBER: US/10/113,996
 / CURRENT FILING DATE: 2002-04-01
 / PRIOR APPLICATION NUMBER: US 08/887,352
 / PRIOR FILING DATE: 1997-07-02
 / PRIOR APPLICATION NUMBER: US 09/296,005
 / PRIOR FILING DATE: 1999-04-21
 / PRIOR APPLICATION NUMBER: US 09/920,171
 / PRIOR FILING DATE: 2001-08-01
 / NUMBER OF SEQ ID NOS: 44
 / SEQ ID NO 19
 / LENGTH: 218
 / TYPE: PRT
 / ORGANISM: Artificial Sequence
 / FEATURE:
 / OTHER INFORMATION: Light chain F(ab)'2 sequence derived from MAE11
 US-10-113-996-19

Query Match 100.0%; Score 596; DB 14; Length 218;
 Best Local Similarity 100.0%; Pred. No. 4.5e-42;
 Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 / SEQ ID NO 24
 / LENGTH: 218
 / TYPE: PRT
 / ORGANISM: Artificial Sequence
 / FEATURE:
 / OTHER INFORMATION: E26, light chain
 US-10-813-483-2

Qy 1 DIQLTQSPSSLASAVGDRVTITCRASKPVDGDSYLNWYQQKPGSKAPKLIIAYASLES 60
 Db 1 DIQLTQSPSSLASAVGDRVTITCRASKPVDGDSYLNWYQQKPGSKAPKLIIAYASLES 60

Qy 61 GVPSRFGSGGTDFLTISLQPEDFATYCCQSHEDPYFGQTKVEIKRTV 114
 Db 61 GVPSRFGSGGTDFLTISLQPEDFATYCCQSHEDPYFGQTKVEIKRTV 114

RESULT 11
 US-10-113-996-24
 / Sequence 24, Application US/10113996

RESULT 13
US-10-791-619-15
; Sequence 15, Application US/10791619
; Publication No. US20040259077A1
; GENERAL INFORMATION:
; APPLICANT: Henry B. Lowman, Leonard G. Presta, Paula M. Jardieu, John Lowe
; TITLE OF INVENTION: Improved Anti-IgE Antibodies and Method of Improving Polypeptides
; FILE REFERENCE: P1123R1
; CURRENT APPLICATION NUMBER: US/10/791,619
; CURRENT FILING DATE: 2004-03-02
; PRIOR APPLICATION NUMBER: US/09/109,207
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/051,554
; PRIOR FILING DATE: 1997-07-03
; NUMBER OF SEQ ID NOS: 44
SEQ ID NO 15
LENGTH: 218
TYPE: PRT
ORGANISM: Artificial
FEATURE:
NAME/KEY: Artificial
LOCATION: 1-218
OTHER INFORMATION: Light chain sequence derived from MAE11
US-10-791-619-15

Query Match Score 596 DB 16; Length 218;
Best Local Similarity 100.0%; Pred. No. 4.5e-42;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DIQLTQSPSSLASVGDRVTITCRASKPVDGDSYLNWYQOKPGRKAPKLIIYAASTLES 60
Db 1 DIQLTQSPSSLASVGDRVTITCRASKPVDGDSYLNWYQOKPGRKAPKLIIYAASTLES 60

Qy 61 GVPSRSGSGCTDFLTISIQLPEDFATYCQQSHEDPYTFGQTKVBT1KRTV 114
Db 61 GVPSRSGSGCTDFLTISIQLPEDFATYCQQSHEDPYTFGQTKVBT1KRTV 114

RESULT 14
US-10-791-619-17
; Sequence 17, Application US/10791619
; Publication No. US20040259077A1
; GENERAL INFORMATION:
; APPLICANT: Henry B. Lowman, Leonard G. Presta, Paula M. Jardieu, John Lowe
; TITLE OF INVENTION: Improved Anti-IgE Antibodies and Method of Improving Polypeptides
; FILE REFERENCE: P1123R1
; CURRENT APPLICATION NUMBER: US/10/791,619
; CURRENT FILING DATE: 2004-03-02
; PRIOR APPLICATION NUMBER: US/09/109,207
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/051,554
; PRIOR FILING DATE: 1997-07-03
; NUMBER OF SEQ ID NOS: 44
SEQ ID NO 17
LENGTH: 218
TYPE: PRT
ORGANISM: Artificial
FEATURE:
NAME/KEY: Artificial
LOCATION: 1-218
OTHER INFORMATION: Light chain sequence derived from MAE11
US-10-791-619-17

Query Match Score 596 DB 16; Length 218;
Best Local Similarity 100.0%; Pred. No. 4.5e-42;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DIQLTQSPSSLASVGDRVTITCRASKPVDGDSYLNWYQOKPGRKAPKLIIYAASTLES 60
Db 1 DIQLTQSPSSLASVGDRVTITCRASKPVDGDSYLNWYQOKPGRKAPKLIIYAASTLES 60

Qy 61 GVPSRSGSGCTDFLTISIQLPEDFATYCQQSHEDPYTFGQTKVBT1KRTV 114

Db 61 GVPSRSGSGCTDFLTISIQLPEDFATYCQQSHEDPYTFGQTKVBT1KRTV 114

RESULT 15
US-10-791-619-19
; Sequence 19, Application US/10791619
; Publication No. US20040259077A1
; GENERAL INFORMATION:
; APPLICANT: Henry B. Lowman, Leonard G. Presta, Paula M. Jardieu, John Lowe
; TITLE OF INVENTION: Improved Anti-IgE Antibodies and Method of Improving Polypeptides
; FILE REFERENCE: P1123R1
; CURRENT APPLICATION NUMBER: US/10/791,619
; CURRENT FILING DATE: 2004-03-02
; PRIOR APPLICATION NUMBER: US/09/109,207
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/051,554
; PRIOR FILING DATE: 1997-07-03
; NUMBER OF SEQ ID NOS: 44
SEQ ID NO 19
LENGTH: 218
TYPE: PRT
ORGANISM: Artificial
FEATURE:
NAME/KEY: Artificial
LOCATION: 1-218
OTHER INFORMATION: Light chain F(ab) sequence derived from MAE11
US-10-791-619-19

Query Match Score 596 DB 16; Length 218;
Best Local Similarity 100.0%; Pred. No. 4.5e-42;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DIQLTQSPSSLASVGDRVTITCRASKPVDGDSYLNWYQOKPGRKAPKLIIYAASTLES 60
Db 1 DIQLTQSPSSLASVGDRVTITCRASKPVDGDSYLNWYQOKPGRKAPKLIIYAASTLES 60

Qy 61 GVPSRSGSGCTDFLTISIQLPEDFATYCQQSHEDPYTFGQTKVBT1KRTV 114
Db 61 GVPSRSGSGCTDFLTISIQLPEDFATYCQQSHEDPYTFGQTKVBT1KRTV 114

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